

FIG. 2

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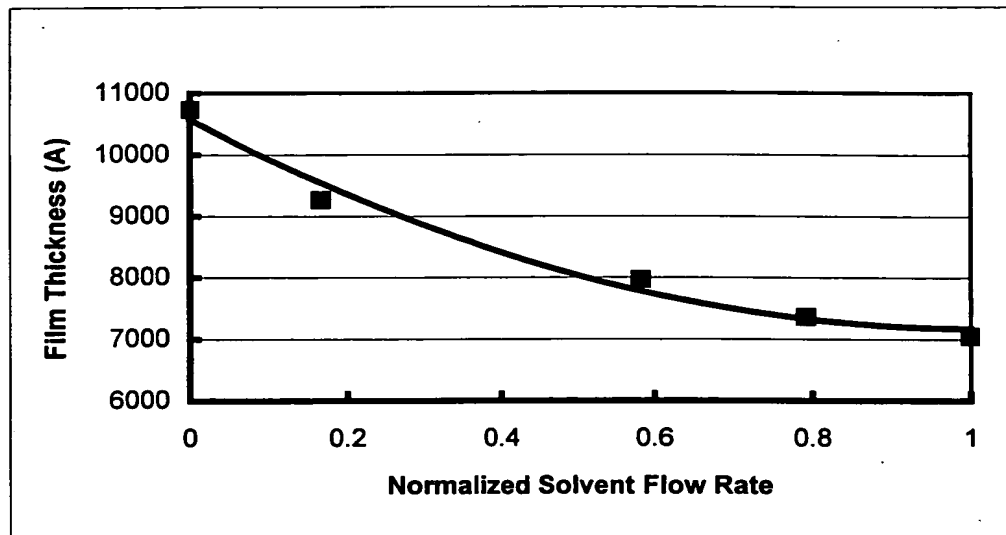


Figure 3a) Mean resist film thickness as a function of solvent concentration at a fixed drying spin speed . Mean film thickness can be varied close to 4000Å by varying the solvent concentration at a fixed 2000 rpm.

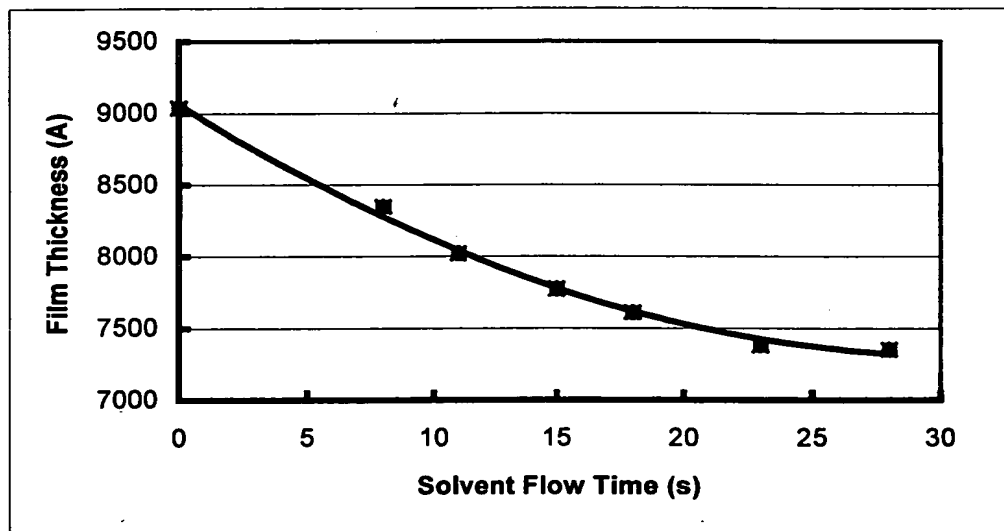


Figure 3b): Film thickness as a function of solvent flow time for a working example.

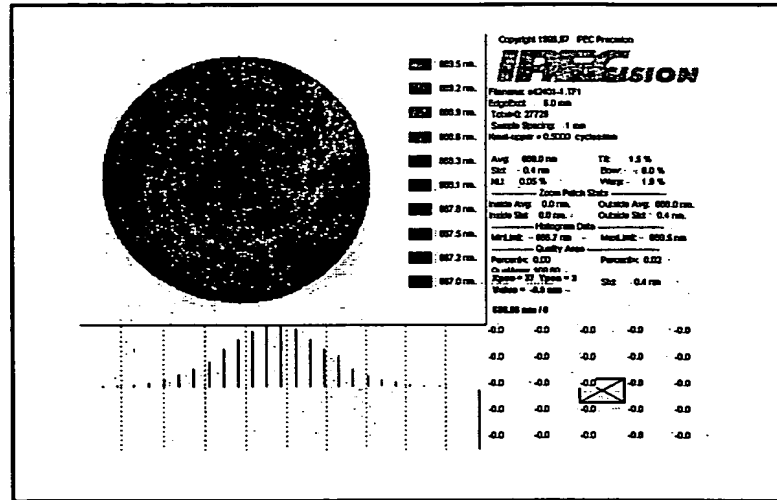
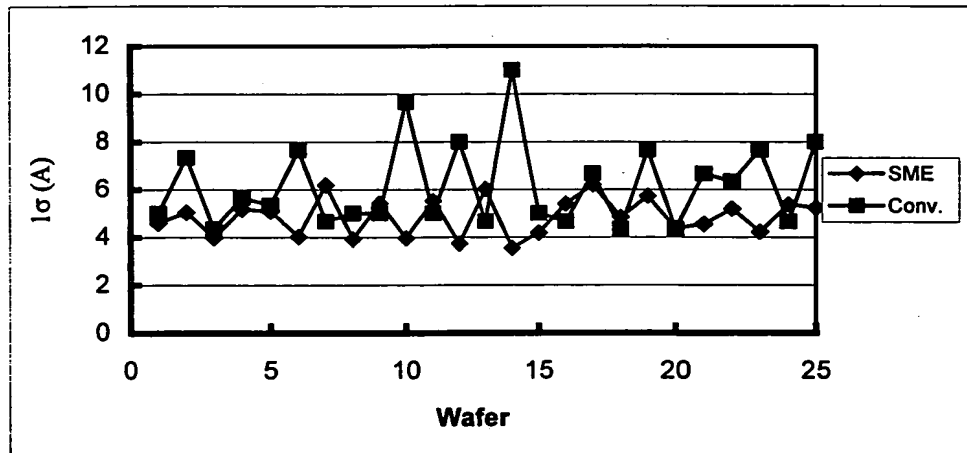


Figure 4: A typical film thickness profile, as measured by 30,000 pts film thickness measurement tool, has a  $1\sigma$  uniformity of  $4\text{\AA}$  (0.045%) for 8880 $\text{\AA}$  target thickness.



	Conventional Coater	Invention
1 $\sigma_{ave}$	5.67Å	4.86Å
1 $\sigma_{band}$	4.5Å	2.2Å

Figure 5) Film uniformity comparison between the invention (SME) and conventional spin coaters.

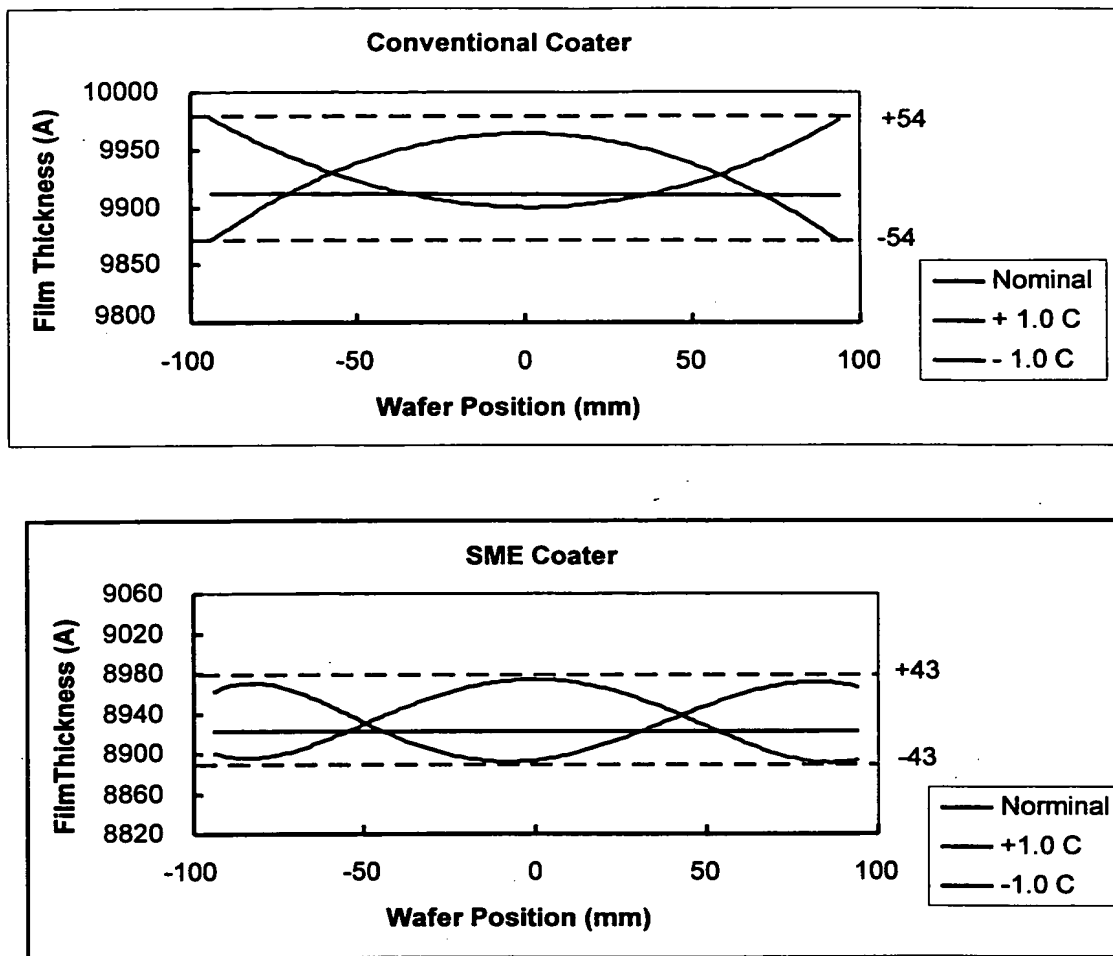


Figure 6: Resist temperature latitude comparison between the invention (SME) and conventional coaters for 200mm wafers. The SME coater resist temperature latitude of film uniformity is 36% wider than that of a conventional coater.

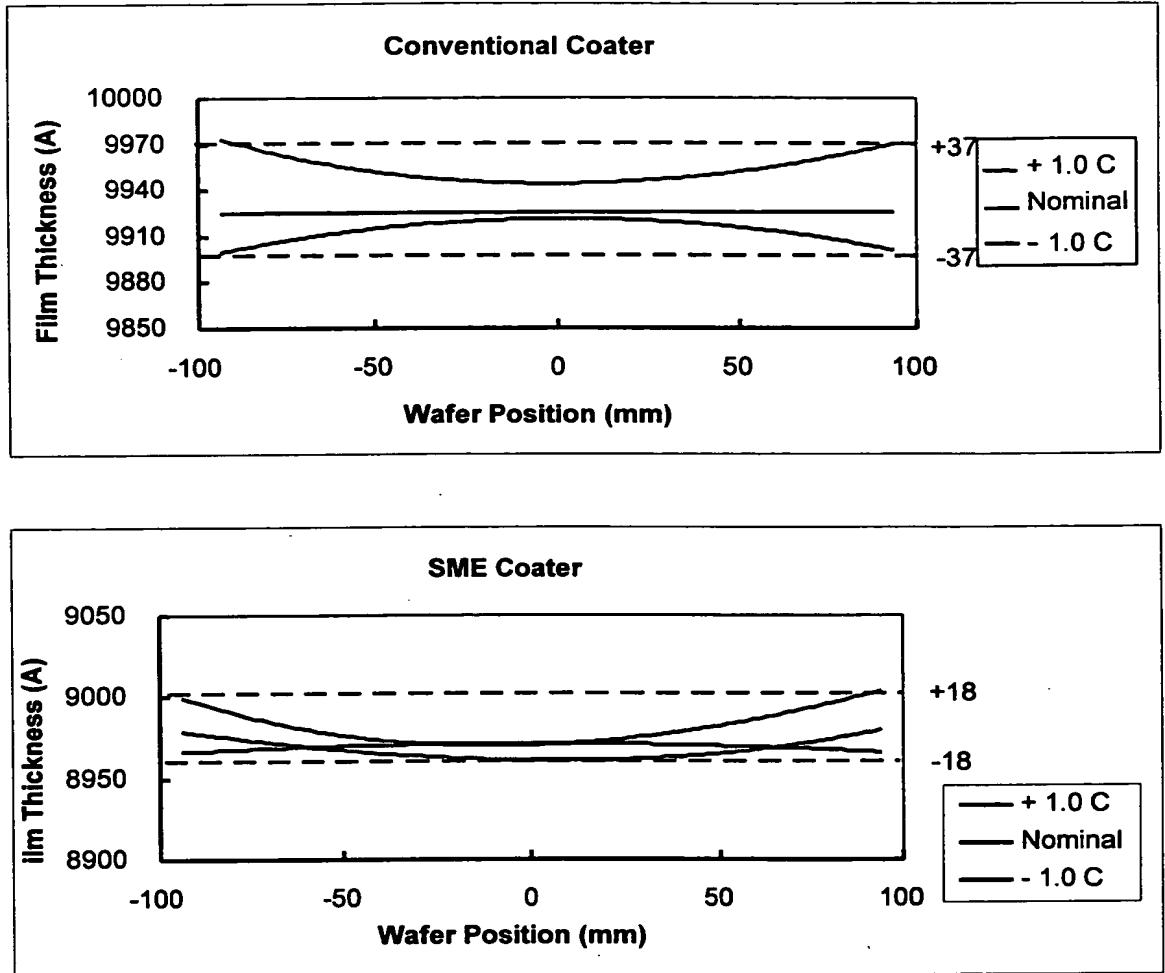
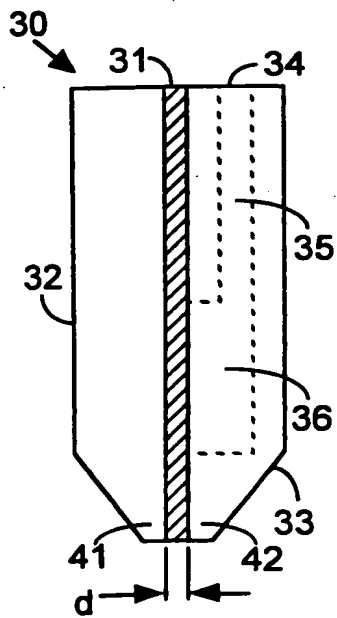
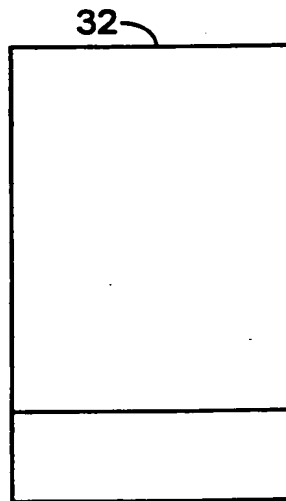


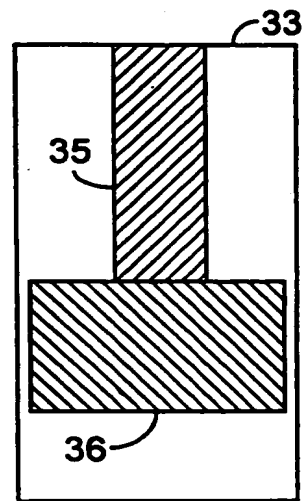
Figure 7: Chill plate temperature latitude comparison of the invention (SME) and conventional coat systems for 200mm wafers. The SME coater chill plate temperature latitude of film uniformity is 43% wider than that of a conventional coater.



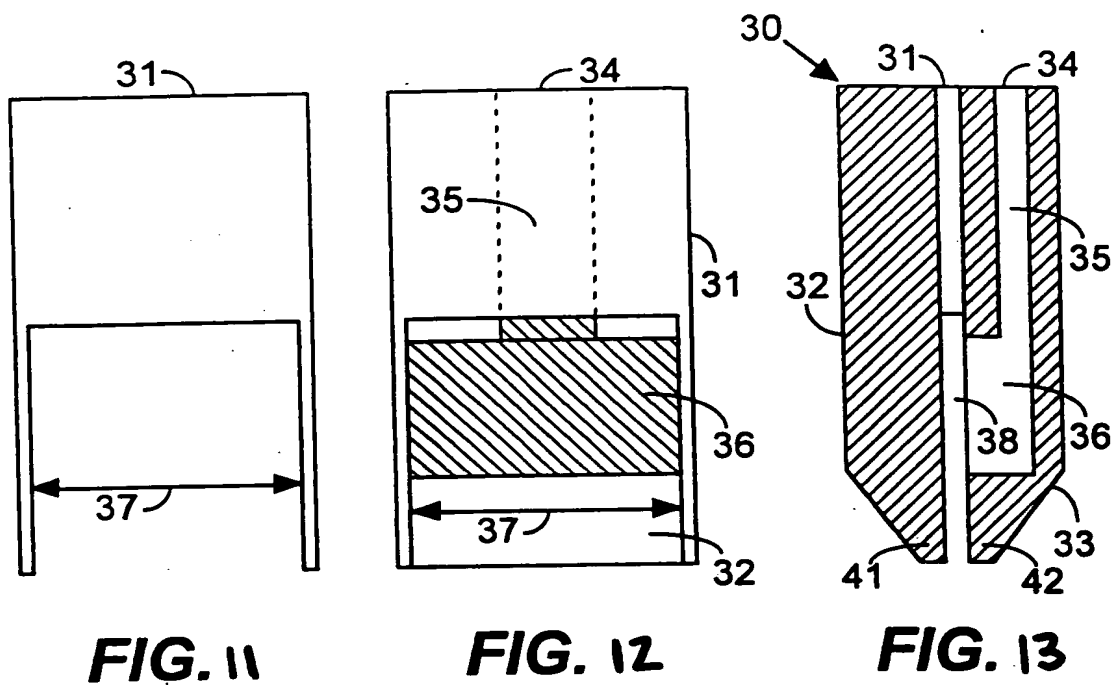
**FIG. 8**



**FIG. 9**



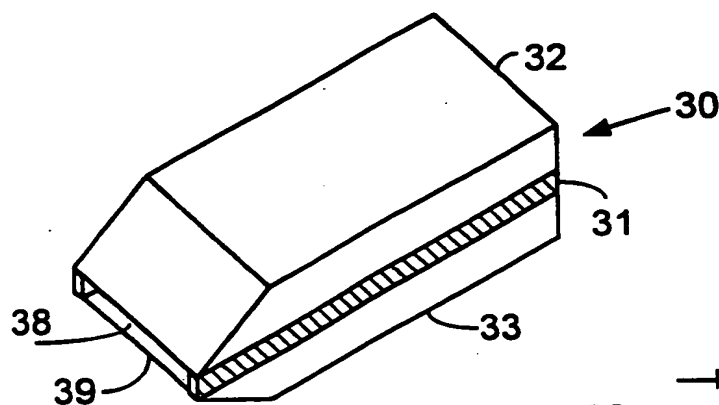
**FIG. 10**



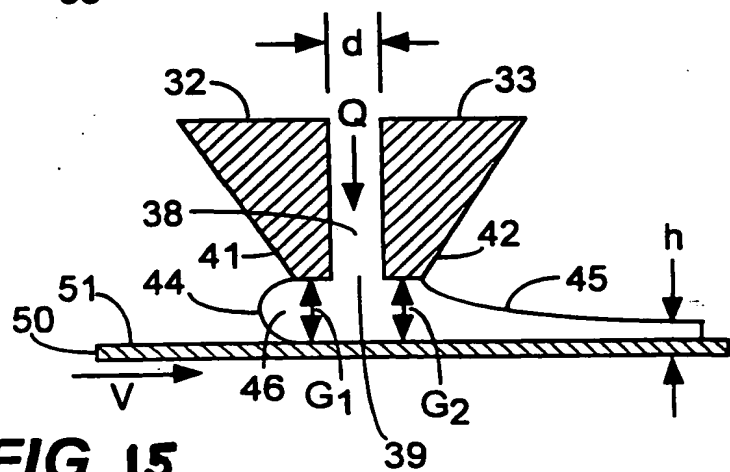
**FIG. 11**

**FIG. 12**

**FIG. 13**



**FIG. 14**



**FIG. 15**



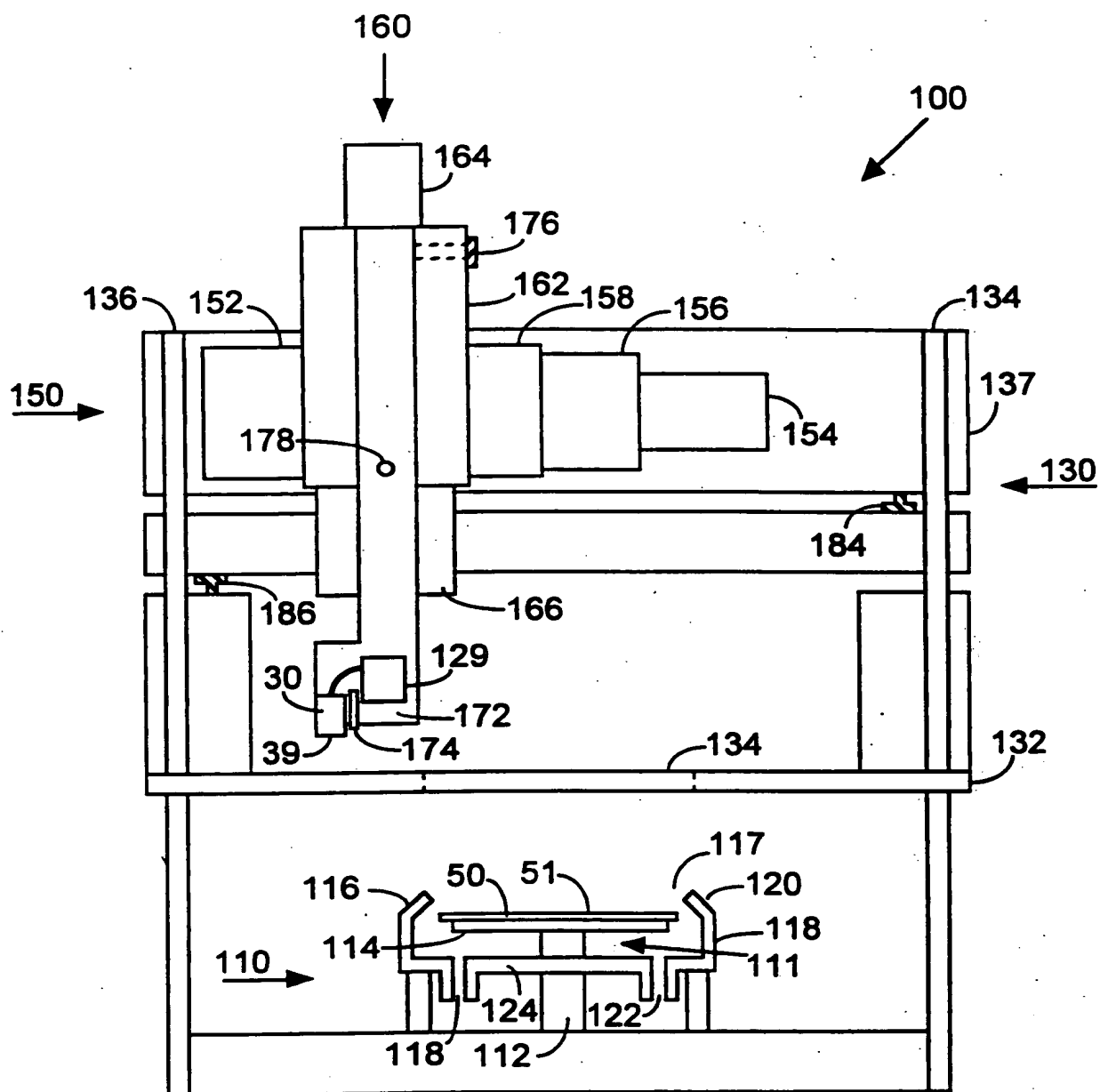
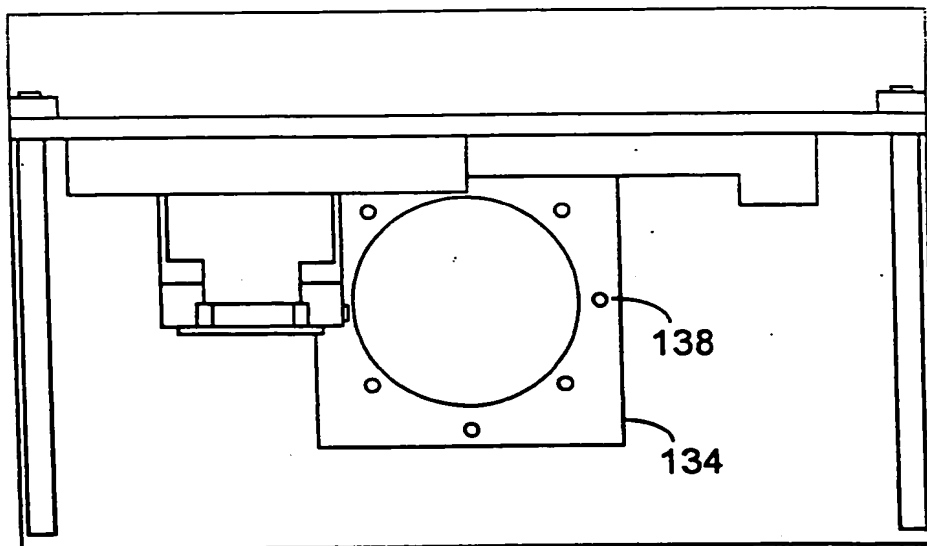
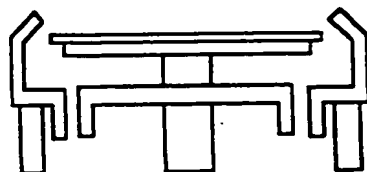
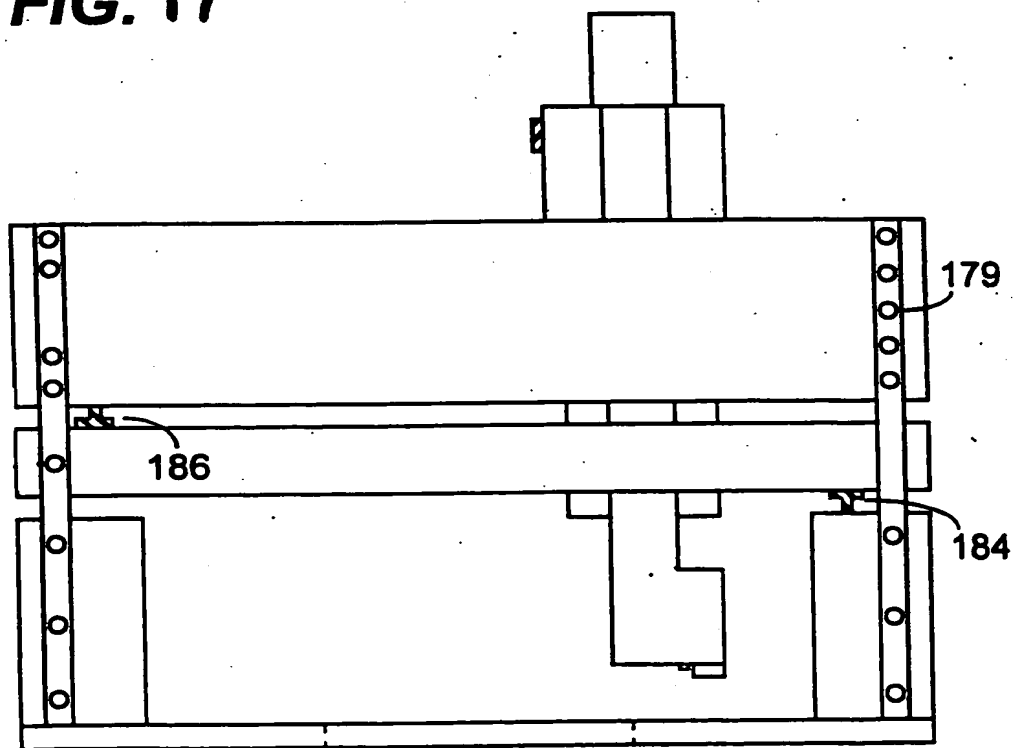


FIG. 16

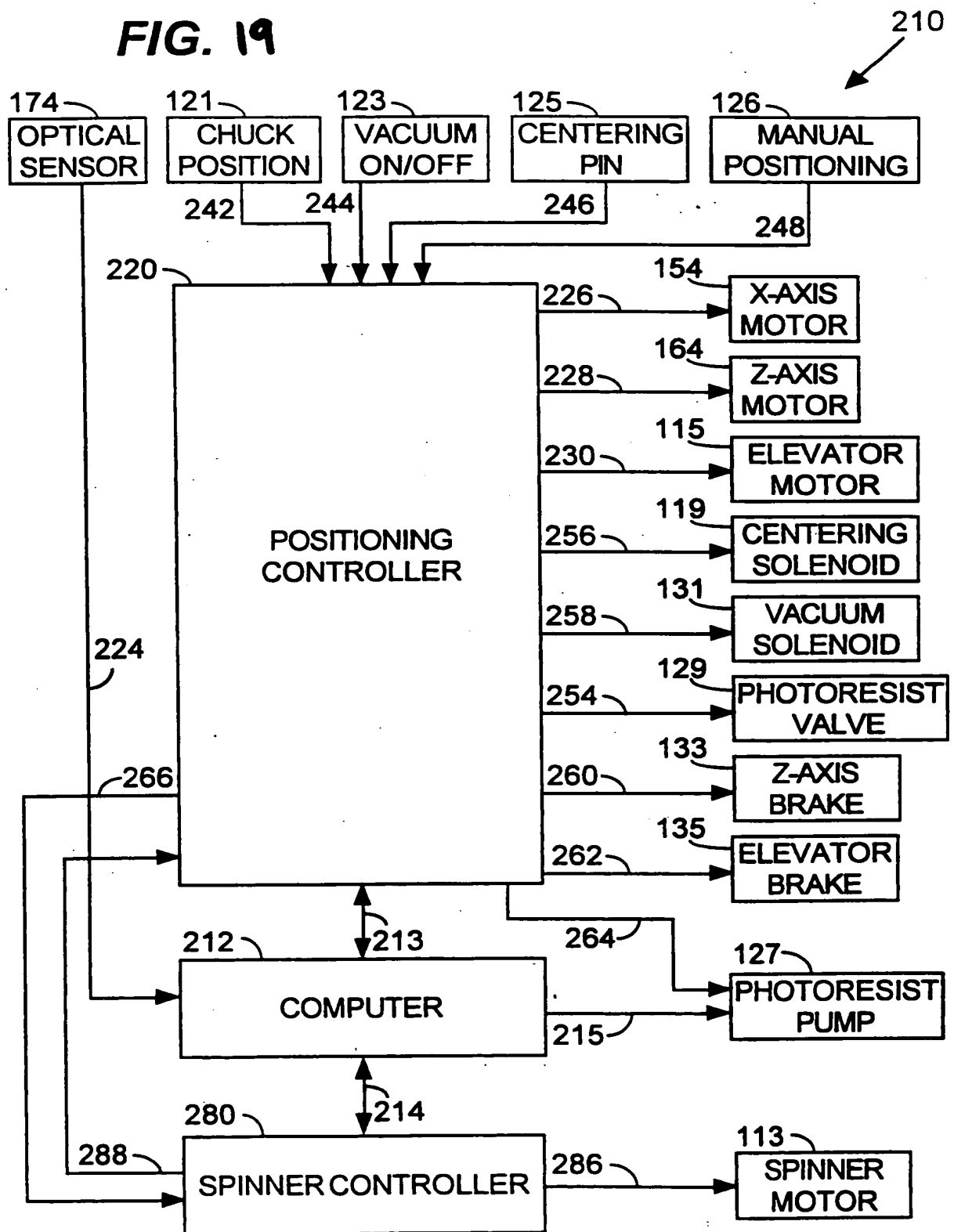


**FIG. 17**



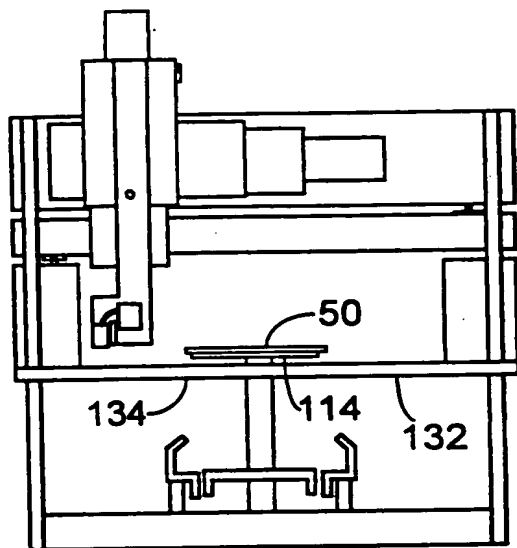
**FIG. 18**

**FIG. 19**

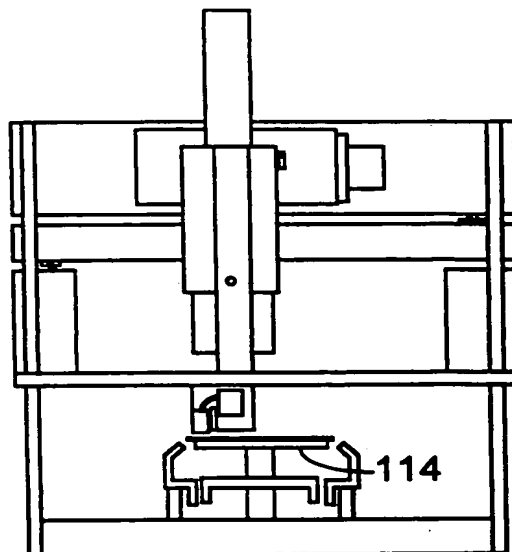


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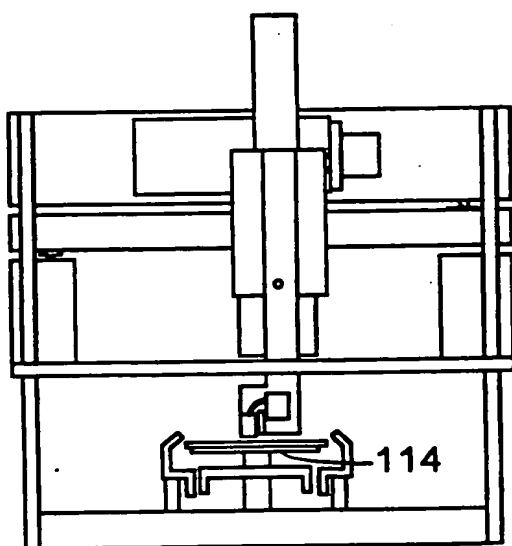
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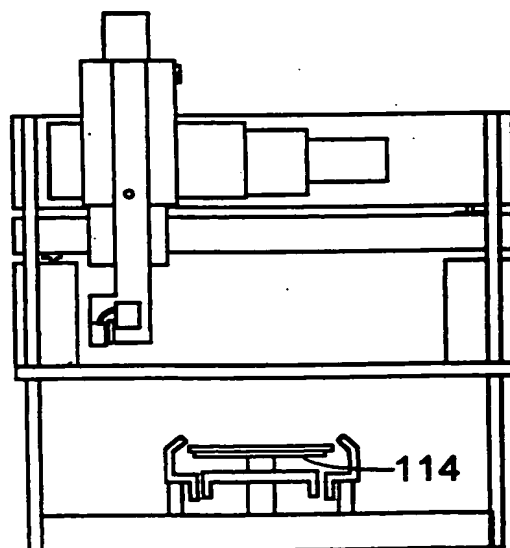
**FIG. 20**



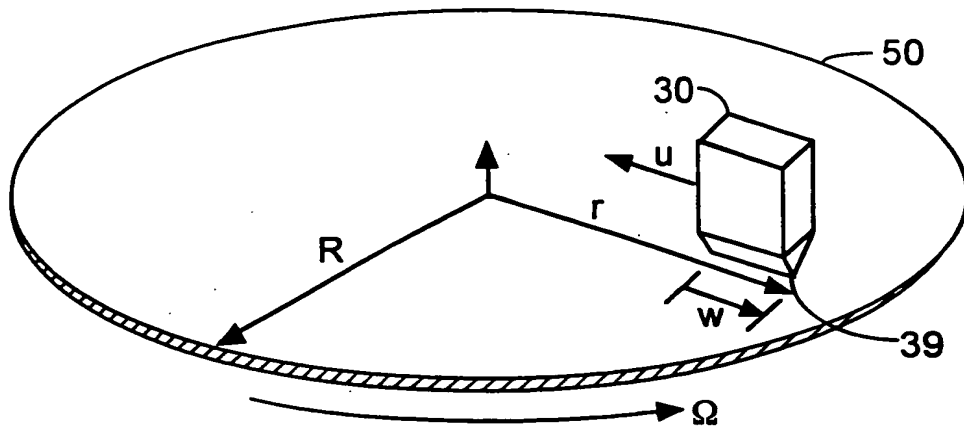
**FIG. 21**



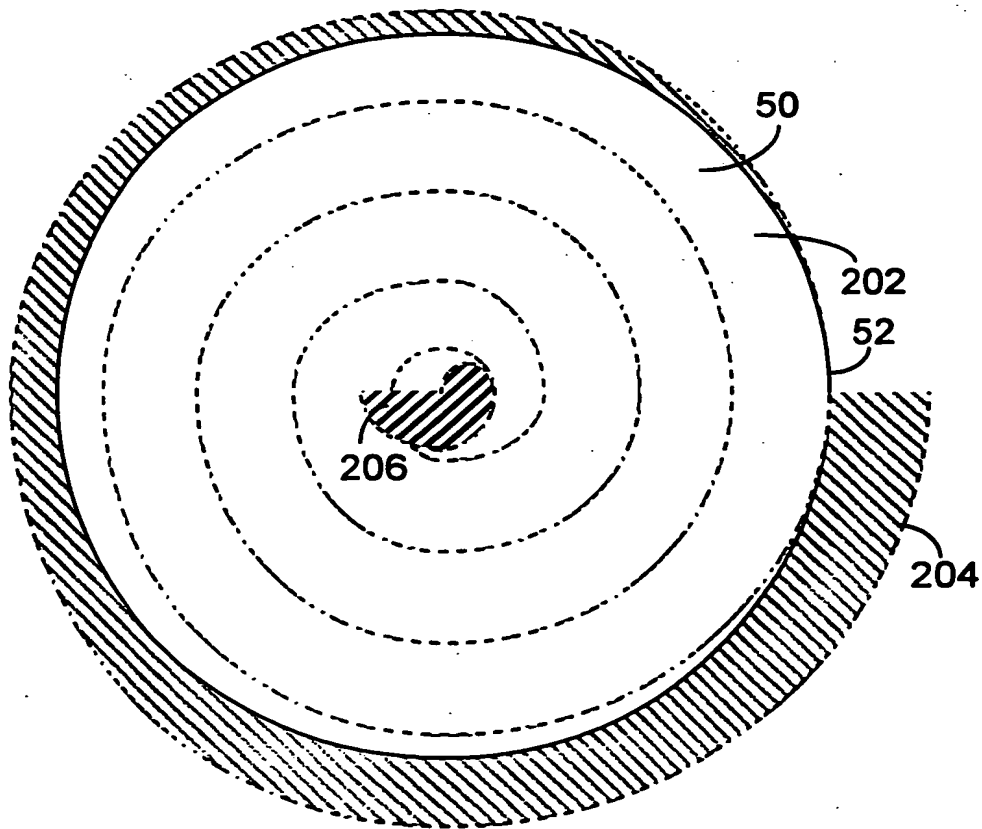
**FIG. 22**



**FIG. 23**



**FIG. 24**



**FIG. 25**

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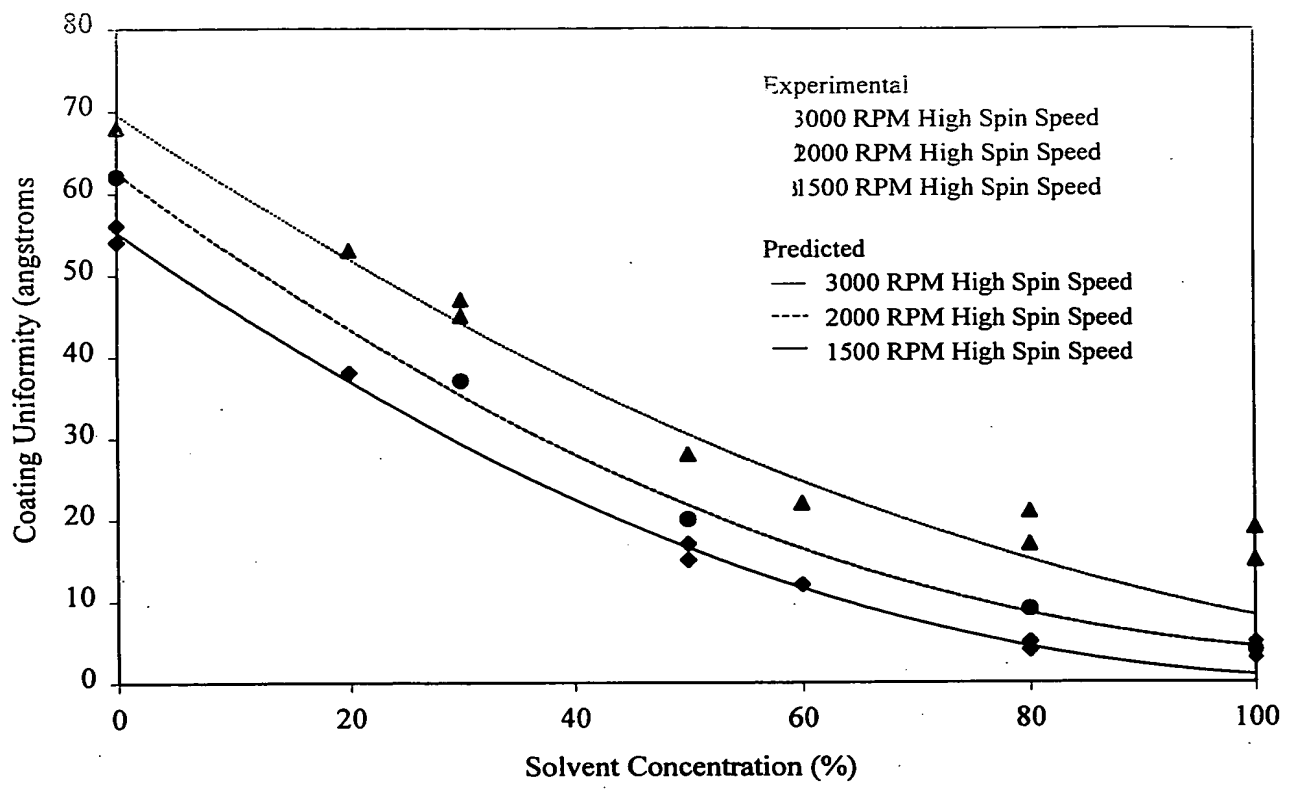


FIG. 26